

Jacob Englert

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EDUCATION

Emory University

Atlanta, GA

Doctor of Philosophy (Ph.D.), Biostatistics

August 2020 – Present

- **Thesis:** Bayesian Tree-Based Methods for Estimating Heterogeneous Effects of Environmental Exposures

Master of Science (M.S.), Biostatistics

May 2023

- GPA: 3.9/4.0
- **Relevant Coursework:** Advanced Linear Models, Generalized Linear Models, Machine Learning, Applied Bayesian Statistics, Longitudinal and Multilevel Data Analysis, Survival Analysis, Advanced Statistical Computing

Northern Kentucky University

Highland Heights, KY

Bachelor of Science (B.S.), Mathematics and Statistics

May 2019

- GPA: 4.0/4.0
- **Relevant Coursework:** Regression Analysis, Categorical Data Analysis, Design and Analysis of Experiments, Applied Multivariate Statistics, Statistical Computing, Time Series Analysis, Probability, Linear Algebra, Calculus

WORK EXPERIENCE

Emory University

Atlanta, GA

Teaching Assistant

January 2021 – Present

- Graded assignments, hosted office hours, and lectured for the following courses: Applied Linear Models (2x), Longitudinal and Multilevel Data Analysis, and Geographic Information Systems (GIS) (2x)

Research Assistant

May 2021 – Present

- Evaluated spatial smoothing and cluster detection techniques to opioid overdose records in Georgia using R
- Consulted and conducted analyses for the SPIRIT (Sharing the Patient's Illness Representations to Increase Trust) trial, a multi-site randomized clinical trial designed to investigate an advanced care planning intervention that helps dialysis patients and their surrogate decision-makers to prepare for end-of-life scenarios

Medpace

Cincinnati, OH

Data Standard Analyst

October 2019 – July 2020

- Designed interactive Spotfire dashboards used to monitor patient safety and compliance
- Ran simulations in R to explore complications associated with over-stratification in clinical trial designs
- Developed SAS macros for medical imaging and biostatistics departments

Biostatistics Intern

January 2018 – June 2019

- Programmed tables and figures to summarize safety and efficacy endpoints from Phase I and II clinical trials
- Refined department-wide production programs and designed SAS graphics templates

Burkardt Consulting Center

Highland Heights, KY

Statistical Consultant

August 2018 – May 2019

- Provided statistical support for research projects conducted by clientele from academia and industry
- Advised clients on the formulation of research questions, data collection and analytical methodology

Northern Kentucky University

Highland Heights, KY

Teaching Assistant

January 2016 – December 2018

- Led a weekly section of 30-35 introductory statistics students in a lab setting
- Tutored students individually and in small groups in calculus and statistics

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SOFTWARE SKILLS & CERTIFICATIONS

- **Programming Languages:** R, SAS, Python, SQL, Mathematica
- **Software:** Spotfire, SPSS, JMP, Minitab, Tableau, ArcMap, MS Office
- **Certifications:** SAS Certified Base Programmer for SAS 9

ACADEMIC PROJECTS

- **Advance Care Planning Intervention Targeting Patients on Dialysis and Their Surrogate Decision-Makers: The SPIRIT Pragmatic Cluster Randomized Trial:** Advised Dr. Mi-Kyung Song on appropriate statistical methodology to model correlated survey data collected from five university hospital networks across the US and conducted these analyses using generalized linear mixed models and GEE procedures in both R and SAS.
- **Togo, Africa: On Track for Over 3°C of Warming by 2100:** Assisted Togolese meteorologists by modeling climate change through applying singular spectrum analysis to monthly historical minimum and maximum temperature data collected for 10 cities located throughout Togo.
- **Predicting the Development of Chronic Kidney Disease in Pediatric Acute Kidney Injury Patients:** Collaborated with Dr. Stuart Goldstein of Cincinnati Children's Hospital Medical Center to develop a logistic regression model to predict the development of chronic kidney disease in children.
- **Using Statistical Weights to Align JN-25 Messages:** Measured the effectiveness of using Shinn weights to decipher Japanese naval messages from World War II.

HONORS & AWARDS

- *First Year Qualifying Exam Top Performer (2021)*, Dept. of Biostatistics and Bioinformatics, Emory University
- *Laney Graduate School Fellowship (2020)*, Laney Graduate School, Emory University
- *Outstanding Senior in Statistics (2019)*, Dept. of Mathematics and Statistics, Northern Kentucky University
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- *Honorable Mention*, 2019 COMAP Mathematical Modeling Competition
- *Outstanding Poster Presentation*, 2019 Joint Mathematics Meetings, Mathematical Association of America
- *Honorable Mention*, 2018 Public Health Data Challenge, American Statistical Association
- *Outstanding Student Writing Award (2016)*, Dept. of English, Northern Kentucky University
- *Distinguished Scholarship*, Northern Kentucky University
- *President's List (x8)*, Northern Kentucky University

ACTIVITIES, MEMBERSHIPS & SERVICE

- Academic Tutoring, Emory University and Northern Kentucky University
- American Statistical Association (Emory Chapter), Emory University
- Scorekeeper, John O'Bryan Mathematics Competition, Northern Kentucky University
- Senator & Justice, Student Government Association, Northern Kentucky University